

## Lect. PhD HANDE UNGAN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABB-3103-2020

Yoksis Researcher ID: 323639

### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Anabilim Dalı, Turkey 2015 - 2020

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Anabilim Dalı, Turkey 2013 - 2015

Undergraduate Double Major, Ataturk University, Fen Fakültesi, Moleküler Biyoloji Ve Genetik, Turkey 2010 - 2014

Undergraduate, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2008 - 2013

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, PEM yakıt pilleri için hidrofobik yüzey geliştirilmesi, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Anabilim Dalı, 2019

Postgraduate, Farklı ince film fotokatalizörlerinin hazırlanması, karakterizasyonu ve fotokatalitik aktivitesi üzerine ultrases enerjisi etkisinin incelenmesi, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Anabilim Dalı, 2015

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Lecturer PhD, Bursa Uludağ University, TEKNİK BİLİMLER MYO, ELEKTRİK VE ENERJİ, 2020 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

1. Effect of the sonication and coating time on the photocatalytic degradation of TiO<sub>2</sub>, TiO<sub>2</sub>-Ag, and TiO<sub>2</sub>-ZnO thin film photocatalysts

UNGAN H., TEKİN T.

CHEMICAL ENGINEERING COMMUNICATIONS, vol.207, no.7, pp.896-903, 2020 (SCI-Expanded)

II. **Kinetic evaluation of ZnO/TiO<sub>2</sub> thin film photocatalyst in photocatalytic degradation of Orange G**

TEKİN D., KIZILTAŞ H., UNGAN H.

JOURNAL OF MOLECULAR LIQUIDS, vol.306, 2020 (SCI-Expanded)

III. **Water management improvement in PEM fuel cells via addition of PDMS or APTES polymers to the catalyst layer**

Ungan H., BAYRAKÇEKEN YURTCAN A.

TURKISH JOURNAL OF CHEMISTRY, vol.44, no.5, pp.1227-1243, 2020 (SCI-Expanded)

IV. **PEMFC catalyst layer modification with the addition of different amounts of PDMS polymer in order to improve water management**

UNGAN H., BAYRAKÇEKEN YURTCAN A.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.11, pp.5946-5958, 2019 (SCI-Expanded)

## Books & Book Chapters

I. **HİBRİT VE ELEKTRİKLİ TAŞIT TEKNOLOJİLERİ**

Kuş A., Karahan M., Sürmen A., Kaplan C., Demir P., Ungan H., Çam Ö. N., Erkuş B., Tek K., Köz F., et al.

Ekin Yayınevi, Bursa, 2023

II. **Other possible fuels and possible use of blended fuels in fuel cells**

DAŞ E., UNGAN H., Bayrakceken Yurtcan A., FIÇICILAR B.

in: Direct Liquid Fuel Cells: Fundamentals, Advances and Future, Ramiz Gültekin Akay Ayşe Bayrakçeken Yurtcan, Editor, Elsevier, Erzurum, pp.249-273, 2020

## Refereed Congress / Symposium Publications in Proceedings

I. **A new approach to improve the performance of PEM fuel cells: APTES polymer modification of the catalyst layer**

UNGAN H., BAYRAKÇEKEN YURTCAN A.

4th International Hydrogen Technologies Congress (IHTEC-2019), 20 June 2019

II. **Effect OF Coating Time On TiO<sub>2</sub> Thin Film Photocatalyst Prepared By Sol-Gel Method**

UNGAN H., TEKİN T.

13 th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE, 23 October 2018

III. **PEM Yakıt Pilleri İçin Yeni Hidrofobik Yüzeyler**

UNGAN H., BAYRAKÇEKEN YURTCAN A.

13. Ulusal Kimya Mühendisliği Kongresi (UKMK 2018), Turkey, 18 September 2018

IV. **Bi-component TiO<sub>2</sub>-ZnO Nanocomposite Photocatalyst Synthesis, Characterization And Investigation Photocatalytic Activity**

UNGAN H., TEKİN D.

th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE, 23 October 2017

V. **Effect Of Coating Time On ZnO Thin Film Photocatalyst Prepared By Sol-Gel Method**

UNGAN H., TEKİN T.

INTERNATIONAL CONFERENCE ON ADVANCES AND INNOVATIONS IN ENGINEERING (ICAIE 2017), 10 May 2017

VI. **İnce Film TiO<sub>2</sub> Fotokatalizörü Üretiminde Ultrases Enerjisinin Etkisi**

UNGAN H., TEKİN D.

12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 25 August 2016

VII. **TiO<sub>2</sub>, Ag-TiO<sub>2</sub>, Zn-TiO<sub>2</sub> İnce Film Fotokatalizörlerinin Üretimi Ve Karakterizasyonu**

UNGAN H., TEKİN D.

12. Ulusal Kimya Mühendisliği Kongresi (UKMK 2016), Turkey, 25 August 2016

## **Metrics**

Publication: 13

Citation (WoS): 12

Citation (Scopus): 17

H-Index (WoS): 3

H-Index (Scopus): 2

## **Scholarships**

YÖK 100/2000, YÖK, 2018 - 2019